



Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
USPTO Use Only

EFS ID: 57196  
Application ID: 10686486  
Title of Invention: APPARATUS FOR ELECTRO  
CHEMICAL DEPOSITION OF  
COPPER METALLIZATION WITH  
THE CAPABILITY OF IN-SITU  
THERMAL ANNEALING  
First Named Inventor: ROBIN CHEUNG  
Domestic/Foreign Application: Domestic Application  
Filing Date: 2003-10-15  
Effective Receipt Date: 2004-03-16  
Submission Type: Information Disclosure  
Statement  
Filing Type:  
Confirmation number: 8014  
Attorney Docket Number: AMAT3421C2  
Total Fees Authorized: 180.0  
Payment Category: Deposit Account  
Deposit Account Number: 200782  
Deposit Account Name: N. ALEXANDER NOLTE  
Access Code: \*\*\*\*  
RAM Payment Status: RAM success  
RAM User ID: EFSPROD  
RAM Accounting Date: 2004-03-16  
RAM Sequence Number: 17



Digital Certificate Holder: cn=N. Alexander Nolte,ou=Registered Attorneys,ou=Patent and  
Trademark Office,ou=Department of Commerce,o=U.S. Government,c=US  
Certificate Message Digest: e94b3301e9e0ed755aee8d4d3aed3395c1a2fe3b

**TRANSMITTAL**

Electronic Version v1.1

Stylesheet Version v1.1.0

<b>Title of Invention</b>	<b>APPARATUS FOR ELECTRO CHEMICAL DEPOSITION OF COPPER METALLIZATION WITH THE CAPABILITY OF IN-SITU THERMAL ANNEALING</b>																
<table><tr><td>Application Number:</td><td>10/686486</td><td></td></tr><tr><td>Date:</td><td colspan="2">2003-10-15</td></tr><tr><td>First Named Applicant:</td><td colspan="2">ROBIN CHEUNG</td></tr><tr><td>Confirmation Number:</td><td colspan="2">8014</td></tr><tr><td>Attorney Docket Number:</td><td colspan="2">AMAT3421C2</td></tr></table>			Application Number:	10/686486		Date:	2003-10-15		First Named Applicant:	ROBIN CHEUNG		Confirmation Number:	8014		Attorney Docket Number:	AMAT3421C2	
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<p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p>																	
<table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>Mr. N. ALEXANDER NOLTE Registered Number: 45689</td><td>[N. ALEXANDER NOLTE]</td><td>Attorney</td></tr></tbody></table>			Submitted by:	Elec. Sign.	Sign. Capacity	Mr. N. ALEXANDER NOLTE Registered Number: 45689	[N. ALEXANDER NOLTE]	Attorney									
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Comments

NO FEES REQUIRED - FILED BEFORE THE FIRST OA. - IDS 3 OF 3.



## FEE TRANSMITTAL

Electronic Version v08

Stylesheet Version v08.0

Title of Invention	APPARATUS FOR ELECTRO CHEMICAL DEPOSITION OF COPPER METALLIZATION WITH THE CAPABILITY OF IN-SITU THERMAL ANNEALING										
Application Number: 10/686486 											
Date: 2003-10-15											
First Named Applicant: ROBIN CHEUNG											
Attorney Docket Number: AMAT3421C2											
Art Unit: 1753											
<b>TOTAL FEE AUTHORIZED \$180</b>											
Patent fees are subject to annual revisions on or about October 1st of each year.											
<b>BASIC FILING FEE</b>											
<table border="1"><thead><tr><th>Fee Description</th><th>Fee Code</th><th>Amount \$</th><th>Fee Paid \$</th></tr></thead><tbody><tr><td>Submission Of Information Disclosure Stmt Fee</td><td>1806</td><td>180</td><td>180</td></tr></tbody></table>				Fee Description	Fee Code	Amount \$	Fee Paid \$	Submission Of Information Disclosure Stmt Fee	1806	180	180
Fee Description	Fee Code	Amount \$	Fee Paid \$								
Submission Of Information Disclosure Stmt Fee	1806	180	180								
<b>AUTHORIZED BILLING INFORMATION</b>											
The commissioner is hereby authorized to charge indicated fees and credit any overpayments to:											
Deposit account number: 200782											
Access Code ****											
Deposit name: MOSER PATTERSON SHERIDAN											
Deposit authorized name: N. ALEXANDER NOLTE											
Signature: \N. ALEXANDER NOLTE\											
Date (YYYYMMDD): 2004-03-16											



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Date (YYYYMMDD): 2004-03-16											



## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of  
Invention

APPARATUS FOR ELECTRO CHEMICAL DEPOSITION OF  
COPPER METALLIZATION WITH THE CAPABILITY OF IN-  
SITU THERMAL ANNEALING

Application Number: 10/686486



Confirmation Number: 8014

First Named Applicant: ROBIN CHEUNG

Attorney Docket Number: AMAT3421C2

Art Unit: 1753

Search string: ( 5252807 or 5256274 or 5259407 or 5290361  
or 5292393 or 5316974 or 5324684 or 5328589  
or 5349978 or 5368711 or 5377425 or 5377708  
or 5415890 or 5429733 or 5442235 or 5447615  
or 5449447 or 5516412 or 5527739 or 5608943  
or 5625170 or 5651865 or 5677244 or 5705223  
or 5716207 or 5718813 or 5723028 or 5820692  
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or 6136163 or 6187152 or 6203582 or 6207005  
or 6258220 or 6267853 or 6276072 or 6290865  
or 6290933 or 6294059 or 6309520 or  
6508920 ).pn.

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	5252807	1993-10-12	CHIZINSKY			
	2	5256274	1993-10-26	PORIS			
	3	5259407	1993-11-09	TUCHIDA, ET AL.			
	4	5290361	1994-03-01	HAYASHIDA, ET AL.			
	5	5292393	1994-03-08	MAYDAN, ET AL.			
	6	5316974	1994-05-31	CRANK			
	7	5324684	1994-06-28	KERMANI, ET AL.			
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	9	5349978	1994-09-27	SAGO, ET AL.			



10	5368711	1994-11-29	PORIS
11	5377425	1995-01-03	KAWAKAMI, ET AL.
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38	6267853	2001-07-31	DORDI, ET AL.
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40	6290865	2001-09-18	LLOYD, ET AL.
41	6290933	2001-09-18	DURGA, ET AL.
42	6294059	2001-09-25	HONGO, ET AL.
43	6309520	2001-10-30	WOODRUFF, ET AL.
44	6508920	2003-01-21	RITZDORF, ET AL.

Signature



Examiner Name	Date